

CITY OF SPRINGFIELD  
INTER-OFFICE MEMORANDUM

PAGE 1

ATTENTION OF FILE

DATE January 15, 1986

DEPARTMENT

On Thursday afternoon, November 21, 1985 at 4:20 p.m., Gene Pabst and I received a call from Fire Marshall Bill Crossland about gasoline fumes entering the KXUS radio station at 2564 N. Glenstone. We met Bill Crossland at the radio station. The people that worked at the radio station said they had been smelling the fumes since Monday morning. We took a reading at the south wall of the building with the explosion meter in the first office cubicle and got a 0-5% L.E.L. reading at the floor. Gene and I took readings in the manholes around the building at this time.

|          |            |
|----------|------------|
| M.H. #4  | 20% L.E.L. |
| M.H. #6  | 40% L.E.L. |
| M.H. #7  | 10% L.E.L. |
| M.H. #36 | 0% L.E.L.  |

We went to the Vickers station next door (to the south) of the radio station because they had been digging in the lot. The Vickers lot slopes down toward the K.X.U.S. building. There was an open ditch in the Vickers lot with the lines exposed. Raw gasoline was lying in the ditch. There was some discoloration on the lot. Bill Crossland called Lloyd Bruce, the Vickers area supervisor. He also called Stoddard Equipment, who had been working on the lines. At 6:00 p.m. readings in the K.X.U.S. building were:

|             |            |
|-------------|------------|
| 1st cubicle | 15% L.E.L. |
| 3rd cubicle | 10% L.E.L. |

The readings around the bases of the stools in the restrooms were 0-5% L.E.L. At 7:15 p.m. readings in the manholes were:

|          |                             |
|----------|-----------------------------|
| M.H. #6  | 25% L.E.L. (opened cover)   |
| M.H. #7  | 5-10% L.E.L. (opened cover) |
| M.H. #49 | 0% L.E.L.                   |
| M.H. #3  | 0% L.E.L. (opened cover)    |
| M.H. #4  | 10% L.E.L. (opened cover)   |
| M.H. #37 | 0% L.E.L.                   |

Lloyd Bruce arrived and said he would call Joe Montgomery. At 8:00 p.m. we took readings again at:

|         |           |
|---------|-----------|
| M.H. #6 | 0% L.E.L. |
| M.H. #7 | 0% L.E.L. |

Lloyd Bruce was going to have Joe Montgomery pump the gasoline out of the ditch. Bill Crossland advised K.X.U.S. to ventilate the building all night. Gene and I explained the situation to the desk clerks at the Scottish Inns and Howard Johnson's and explained why we were going to leave the manhole covers open.

On Friday morning, November 22, 1985, at 8:30 a.m. Gene called Harold Bengsch about this problem. Harold told him that at 15% L.E.L. the risk of cancer was 1 in 100,000.

SIGNED

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~~3075 E. Sunshine~~



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Harold also asked if the fumes were getting into Howard Johnsons. They are not at this time.

At 9:30 a.m. Gene and I talked to Lloyd Bruce. He is going to have Stoddard Equipment perform the Petro-Tite test on all of his tanks and lines today. They told him it would probably take all weekend to do the testing. We suggested that he dig a hole in the lot and pump down the groundwater, but he wants to wait until after he gets the test results. There is some old product on the surface of the water in the ditch.. At 9:40 a.m. we took more readings in the KXUS building. In the men's bathroom the explosion meter read 10% L.E.L. at the base of the stool and 0% in the overflow of the sink. The readings in the women's restroom were 5% at the base of the stool and 0% at the sink overflow. The readings were 10% along the south wall of the building. At 9:45 a.m. readings in the manholes were:

|          |               |
|----------|---------------|
| M.H. #6  | 10-15% L.E.L. |
| M.H. #7  | 0-5% L.E.L.   |
| M.H. #49 | 0% L.E.L.     |
| M.H. #36 | 0% L.E.L.     |

Vickers Service station in tributary to M.H. #36.

Gene suggested to Mr. Bruce to reroute the downspout off the roof, as it drained directly into the ditch.

On Friday afternoon, 2:30 p.m. Randy and Steve took readings in the KXUS building. In the business office (in the phone conduit) the reading was 10% L.E.L. Along the south wall readings were:

|                             |            |
|-----------------------------|------------|
| 1st cubicle                 | 70% L.E.L. |
| 2nd cubicle                 | 15% L.E.L. |
| 3rd cubicle                 | 10% L.E.L. |
| 4th cubicle                 | 5% L.E.L.  |
| men's restroom              | trace      |
| women's restroom            | 0% L.E.L.  |
| wall outside restrooms      | 5-10%      |
| south wall outside building | 5-10%      |

Steve and Randy also took readings in the manholes around the building:

|         |            |         |
|---------|------------|---------|
| M.H. #7 | 5% L.E.L.  | 2:43 pm |
| M.H. #6 | 10% L.E.L. | 2:46 pm |
| M.H. #4 | 10% L.E.L. | 2:48 pm |
| M.H. #3 | 10% L.E.L. | 2:50 pm |

Steve and Randy suggested to the people at KXUS that they call the health department about the fumes in the building. Ron Boyer called this office at 2:45 pm to report the gasoline odor in the building. Marilyn Braham of KXUS had called him.

On Saturday, November 23, 1985, at 1:15 p.m. I took readings with the explosion

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meter in the KXUS building and the manholes around it. The results were:

|                     |                                   |
|---------------------|-----------------------------------|
| MH #7               | 0% L.E.L.                         |
| MH #6               | 0% L.E.L. (I could smell it here) |
| MH #49              | 0% L.E.L.                         |
| MH #36              | 0% L.E.L.                         |
| MH #4               | 0% L.E.L.                         |
| MH #3               | 0% L.E.L.                         |
| 1st cubicle at KXUS | 10-25% L.E.L.                     |
| restrooms           | 0-5%                              |

I talked to the desk clerk at the Scottish Inn and explained the problem to him. I also talked to one of the Stoddard Equipment personnel. He said that so far the tank looked good and it apparently wasn't taking any water. At 2:10 p.m. I called the fire department dispatcher about the readings in the KXUS building. He said he would ask a fire marshall to drop by and check it.

On Sunday, November 24, 1985, Gene Pabst checked the KXUS building and the manholes around it with the explosion meter. His results were:

|                    |              |
|--------------------|--------------|
| MH #3              | 0% L.E.L.    |
| MH #4              | 0% L.E.L.    |
| MH #6              | 0% L.kE.L.   |
| MH #7              | 0% L.E.L.    |
| MH #36             | 0% L.E.L.    |
| MH #49             | 0% L.E.L.    |
| Base of South Wall | 5-10% L.E.L. |
| Bathrooms          | 0% L.E.L.    |
| Building           | 0% L.E.L.    |

Gene called the Fire Marshall and asked him to check the building.

On Monday, November 25, 1985, the readings at 10:20 a.m.:

|       |                                   |
|-------|-----------------------------------|
| MH #3 | 0% L.E.L. (Gene & I replaced lid) |
| MH #4 | 0% L.E.L. "                       |
| MH #6 | 0% L.E.L. "                       |
| MH #7 | 5% L.E.L. (lid was on)            |

We talked to Stoddard personnel and they hadn't found anything wrong yet.

Our readings at 1:45 pm were:

|       |           |
|-------|-----------|
| MH #3 | 0% L.E.L. |
| MH #4 | 0% L.E.L. |
| MH #6 | 0% L.E.L. |
| MH #7 | 5% L.E.L. |

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On Tuesday, November 26, 1985, the readings in the manholes were:

|        |             |
|--------|-------------|
| MH #3  | 0% L.E.L.   |
| MH #4  | 0% L.E.L.   |
| MH #6  | 0% L.E.L.   |
| MH #7  | 100% L.E.L. |
| MH #49 | 0%          |

When the cover on MH #7 was opened it smelled like natural gas. It rained the night before and the manhole was surcharged. Gene called the fire department about the high reading at MH #7. Mike Martin came out. We also called CU. CU got a 20% L.E.L. on his meter, he couldn't tell if the gas was natural or not. We also talked to Stoddard. Stoddard Equipment said they had tested the regular and premium unleaded tanks. They will redo the premium unleaded tank as the vent line appears to be leaking. The regular tank tested out satisfactorily. They are going to test the unleaded tank and product line today. The downspout at the Vicker's station hasn't been rerouted.

At 2:45 p.m. Gene and I took readings in the manholes again. They were:

|       |           |
|-------|-----------|
| MH #3 | 0% L.E.L. |
| MH #4 | 0% L.E.L. |
| MH #6 | 0% L.E.L. |
| MH #7 | 0% L.E.L. |

On Wednesday, November 27, 1985, Gene and I took readings with the explosion meter. The results were at 9:15 a.m.:

|       |   |
|-------|---|
| MH #3 | 0%                                      |
| MH #6 | 0%                                      |
| MH #7 | 0% (We replaced the cover at 9:25 a.m.) |

We talked to the people at Stoddard Equipment. They said that the unleaded tank and vent line checked out tight.

At 1:45 p.m., our readings were:

|       |    |
|-------|----|
| MH #6 | 0% |
| MH #7 | 0% |

On Friday, November 29, 1985, I took readings in the manholes. The results were:

|        |                                    |
|--------|------------------------------------|
| MH #3  | 0%                                 |
| MH #4  | 0%                                 |
| MH #6  | 0%                                 |
| MH #7  | 10-15% ( I opened the cover again) |
| MH #49 | 0%                                 |

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I asked the people at Stoddard if they had found anything yet and they hadn't.

At 2:00 p.m. the readings were:

|        |    |
|--------|----|
| MH #3  | 0% |
| MH #4  | 0% |
| MH #6  | 0% |
| MH #7  | 0% |
| MH #49 | 0% |

I told the shift supervisor at Howard Johnson's, Cameron Day, that the cover on the manhole (#7) would be open all weekend.

On Monday, December 2, 1985 at 9:30 a.m. Gene and I took readings at the manholes, they were:

|    |                            |
|----|----------------------------|
| #6 | 0% L.E.L.                  |
| #7 | 0% L.E.L. (replaced cover) |

At 11:30 a.m. Mr. Henry Cole talked to the people at US97. They told him they were experiencing problems with gasoline odors in their building. Henry told them to call the health department.

At 11:55 a.m. Mr. Bruce, the area supervisor at Vickers, contacted this office and informed Gene he was receiving calls from US97 about the gasoline problem in their building. Gene told Mr. Bruce that they had already called Henry about the problem. Mr. Bruce stated that Stoddard has not found a leak and he wondered about what further action he could take. Gene told him that trenching along the south wall of the U.S.97 might help. Mr. Bruce said that he didn't know what else to do and was going to contact him supervisor. Gene then talked to Henry Cole and asked if we could make them trench. He said that he did not think that we had the authority to do so since we were not having a problem in our sewer.

Between 2:15 and 3:15 Gene and I went to KXUS and the Vickers station. Our readings were:

|                   |                                 |
|-------------------|---------------------------------|
| US97 (south wall) | 10-15% L.E.L.                   |
| MH #3             | 0% L.E.L.                       |
| MH #6             | 0% L.E.L.                       |
| MH #7             | 10% (appears to be natural gas) |

We talked to Lloyd Bruce and Joe Montgomery. Montgomery is going to trench. Glen Chapman, an engineer for Vickers said to trench as deeply as possible.

On Tuesday, December 3, 1985 Gene and I took readings in the manholes. At 10:00 a.m. the readings were:

|       |             |
|-------|-------------|
| MH #6 | 0% L.E.L.   |
| MH #7 | 0-5% L.E.L. |

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There was a backhoe at Vickers, but nobody was there.

At 2:00 p.m. the readings were:

|       |              |
|-------|--------------|
| MH #3 | 0% L.E.L.    |
| MH #6 | 0% L.E.L.    |
| MH #7 | 5-10% L.E.L. |

There is a trench at Vicker's approximately 6 feet deep, there is a rainbow on the water in the trench.

At 4:00 p.m. the reading at MH #7 was 0-5% L.E.L.

On Wednesday, December 4, 1985, Gene and I took readings in the manholes. At 10:00 a.m., the readings were:

|       |             |
|-------|-------------|
| MH #6 | 0% L.E.L.   |
| MH #7 | 0-5% L.E.L. |

There is some spillage on Vicker's lot around the downspout of the roof. It appears to be gasoline from an overfilled tank that came out of a vent pipe.

At 3:00 p.m. the readings in the manholes were:

|       |              |
|-------|--------------|
| MH #6 | 5-10% L.E.L. |
| MH #7 | 5-10% L.E.L. |

Stoddard had pumped water out of the trench.

On Thursday, December 5, 1985, Gene and I talked to personnel from Stoddard Equipment. They think the problem is possibly a bad fitting on the premium line from the tank to the dispenser. Our readings at 2:00 p.m. were:

|       |             |
|-------|-------------|
| MH #6 | 0-3% L.E.L. |
| MH #7 | 5% L.E.L.   |

On Friday, December 6, 1985, Gene and I took readings in the manholes. At 9:25 a.m. they were:

|       |  |
|-------|--|
| MH #6 | 0% L.E.L.                              |
| MH #7 | 10% L.E.L. (appears to be natural gas) |

On Monday, December 9, 1985 Gene and I took readings in the manholes. At 2:00 p.m. they were:

|       |                                       |
|-------|---------------------------------------|
| MH #6 | 0% L.E.L.                             |
| MH #7 | 5% L.E.L. (appears to be natural gas) |

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The trench in Vicker's lot has been filled in and two standpipes installed.

On Wednesday, December 11, 1985, Gene and I took a reading at 3:00 p.m.. It was:

MH #7

0-5% L.E.L.

*Karen Chandler, WPC I*  
*S&E*

cc: Mr. Bob Schaefer, P.E., Superintendent of Sanitary Services  
Mr. Henry Cole, P.E., Sanitary Engineer  
Mr. Chuck Kroeger, Missouri Dept. of Natural Resources

SIGNED \_\_\_\_\_

*2564 N. Glenstone*







